CENTRAL REGIONAL LABORATORY

Data Checklist

Data Set AIR 2001 0069 Cheshire Monitoring Study
Suspended Particles

- Chain-of-Custody
- Analysis Request Form(s)*
- ☐ Sample Tags
- Transmittal Report w/signatures of the following:
 - Analyst (s)
 - Data Management Coordinator

* Analysis Request Forms provide the data user a means to connect sample numbers with sampling locations

Prepared by:

ata Management Coordinator

Rev. 5/4/00

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date:

SEP 1 2 2001

Subject:

Review of Region 5 Data for **CHESHIRE MONITORING STUDY**

From:

Francis A. Awanya, Chemist

Region 5 Central Regional Laboratory

To:

Attached are the results for: **CHESHIRE MONITORING STUDY**

CRL data set number: 20010069

Samples analyzed for: Suspended Particles

Results are reported for sample designations: 2001AH06S01 and 2001AH06S03.

SEP	1	2,	200
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Date Transmitted: SEP	/1 2 2001	
	A Project Manager/Officer complete the Customer Satisfaction Sample Coordinator at 3-1226.	ı Survey,
Please sign and date this	form below and return it with any comments to:	
Da Re	ylvia Griffin ata Management Coordinator egion 5 Central Regional Laboratory IL-10C	÷

Received by and Date

Data Management Coordinator and Date Received

Comments:

Central Regional Laboratory, RMD, Region 5 Customer Satisfaction Survey

The purpose of this survey is to collect information from you about your recent experience with analytical services received from the Region 5 Central Regional Laboratory (CRL). This survey is divided into 4 sections. Please fill out the information in each section as requested. Then in Section C, supply your name and contact information, and submit the form as directed at the end of the survey.

Section A -- Sample Requests

Please respond to the following questions as accurately as possible. If you have additional comments beyond the space provided, please send them to George Schupp, CRL Sample Coordinator, at ML-10C (See Form Submission).

1. What is your CRL Data Set Number(s) [i.e., the 8-digit number beginning with the 4-digit I and followed by a 4 digit number]? (Eg.:20010099)
2. How easy was it to schedule samples?:
Easy: Difficult:
3. If not "Easy", please provide a brief explanation:
SECTION B Analytical Services
Please respond to the following questions concerning the analysis of your samples.
1. Overall, how would you rate the CRL analytical services you received?
Bad; Poor; Fair; Good; Excellent
2. If not "Good" or "Excellent", what was the problem?
t u
3. What type of analytical services did you request (eg, analysis of samples, etc.; lab audit; document review, other)?
4. Who performed the analytical service(s) (CRL EPA Staff, ESAT)?

SECTION C -- Comments and Suggestions

Please provide specific comments or suggestions for improving any of the aspects of CRL Analytical Services:

If you would like additional information on CRL Analytical Services, The CRL Board of Directors, or the Sample Request Process, please indicate below () and provide your name and mail code).

Analytical Services;	CRL Board of Directors;	Sample Requests
Name:	Mail Code:	<u>a</u>

FORM SUBMISSION

Thank you for taking the time to answer the questions in our survey. You will receive a confirmation message from us shortly.

We will review your survey and respond to any specific concerns or problems ASAP. Your survey and others will be evaluated for trends in an effort to establish efficient support and analytical processes. The process at each stage of the analytical services we provide are critical links towards giving you the kind of timely, accurate analytical services you need. This data will also be tracked by our management and the Board of Directors so additional customer feedback can be used to plan CRL activities in the future.

Please forward this completed survey to:

CRL Sample Coordinator at Mail code: ML-10C

Please go to the following e-mail address at: <u>schupp.george@epa.gov</u> to request an electronic copy of this survey or call 312-353-1226.

CRL Data Review Qualification Codes

QUALIFIER	DESCRIPTION
В	This flag is used when the analyte is found in the associated B lank as well as the sample. It indicates possible blank contamination and warns the user to take appropriate action while assessing the data. See the case narrative for a discussion of common lab contaminants and/or the relative concentration of contamination in the samples and blanks for relevance.
J	This flag is used when the analyte is <u>estimated</u> due to quality control limit(s) being exceeded. This flag accompanies all GC/MS tentatively identified compounds (TICs). This flag also applies to a suspected, unidentified interference. This flag is placed on affected detected results as well as non-detected (i.e., "U" flagged) results. (<u>J</u> is the flag used in the Superfund CLP SOW and Data Review Functional Guidelines and is used by CRL for consistency.)
M	This flag is used when the analyte is confirmed to be qualitatively present in the sample, extract or digestate, with a quantity at or above the CRL <u>Method</u> Detection Limit (MDL) but below the lowest concentration of the calibration curve. This flag indicates the quantitated value is <u>estimated</u> since it falls below the lowest calibration standard in the calibration curve.
N	This flag applies to GC/MS TeNtatively Identified Compounds (TICs) that have a mass spectral library match.
Q	This flag applies to analyte data that are severely estimated due to quality control and/or <i>Q</i> uantitation problems, but are confirmed to be qualitatively present in the sample. No value is reported with this qualification flag.
R	This flag applies to analyte data that are <u>Rejected</u> and unusable due to severe quality control, quantitation and/or qualitative identification problems. No other qualification flags are reported for this analyte. <u>No value is reported with this qualification flag.</u>
U	This flag in used when the analyte was analyzed for but <u>Undetected</u> in the sample. The CRL RL for the analyte accompanies this flag. When the customer requests CRL to report below our RL down to our MDL, undetected analytes are reported with a "U" code and the MDL. As with sample results that are positive, the value is corrected for dry weight, dilution and/or sample weight or volume.

Data Set Number:	20010069		_ Parameter:	Suspended Particles
Facility Name:	_CHESHIRE	MONITOR	ING STUDY	
Study Name:	<u>CHESHIRE</u>	MONITOR	ING STUDY	
Date of Narrative:	09/12/2001		Analyst:	FAA
.8			Signature:	2

ANALYSIS CASE NARRATIVE

Two (2) exposed filters were received for suspended particle analysis at the Central Regional Laboratory (CRL) on September 7, 2001. These two filters were fractions of 22 clean filters, prepared at the CRL between July 13 and 17, 2001 and sent to the field for exposure. Filter preparations and final weighting of exposed filters were performed according to CRL.SOP AIG047. Analysis of exposed filters were completed on 9/12/2001. All the suspended particle results are acceptable for use.

Filters ID	Samples ID	Tag Number
G1006694	2001AH06S01	5-340043-1
G1006690	2001AH06S03	5-340042-1

ENVIRONMENTAL PROTECTION AGENCY REGION V

CENTRAL REGIONAL LABORATORY

FINAL RESULT REPORT FOR THE TEAM: ANALYTICAL AND INORGANIC (A&I)

DIVISION/BRANCH: AIR DIVISION SAMPLING DATE: 08/23/2001 LAB ARRIVAL DATE: 09/07/2001 DUE DATE: 09/14/2001

DU NUMBER: 90101A DATA SET NUMBER: 20010069 STUDY: CHESHIRE MONITORING STUDY PRIORITY: 1 LABORATORY: CRL

SAMPLE#	CRL LOG NUMBER	SAMPLE DESCRIPTION	SUSPENDED PARTICLE (g/filter)	*:		
1	2001AH06S01	GUIDING HANDS SCHOOL	0.0376		200	
2	2001AH06S03	ADDAVILLE	0.0371			
DATE OF	ANALYSIS		09/12/2001			
ANA	ALYST		FAA			

leviewed by:	٤.٧	Date:	121	2001

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ENVIRONMENTAL PROTECTION AGENCY REGION V CENTRAL REGIONAL LABORATORY

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DATE OF	ANALYSIS		09/12/2001		
ANA	ALYST		FION	W)	

eviewed by:	£.7	Date: 1 / (2/ 200)	

Page 1 of 1

Project Name CHESHIRE MUNITURING-STUDY 2001 0069 ARRIVAL DATE: 9/7/2001 901014 Project No. DUE DATE: 9/14/2001 01AH06 Sampler Mike Murphy Page 5-140010 Cooler ID 01AH061 Grab / Comp **Station Location No Bottles** Tag Numbers Date / Time Sample ld: Station 23/08/2001 00:00:00 Grab Com **GUIDING HANDS SCHOOL** 5-340043 1 to 1 01AH06SO1 SO1 Bottle No. 1 **Parameter** PM10 **No Bottles** Date / Time Grab / Comp **Station Location** Tag Numbers Sample Id: Station Grab Com ADDAVILLE 5-340042 1 to 1 01AH06SO3 **SO3** 23/08/2001 00:00:00 Bottle No. 1 **Parameter**

PM10

CRL SOP: HK015	Date: 07 January 2000	Revision No: 1
Data review for the Analytical and	Page _ of _	

ATTACHMENT II

CRL Analytical and Inorganics Data Review Checklist

Batch Number: 20010069 Facility: CHESHIRE MONITURING STUDY

Parameter: SUSPENDED PARTICLE CRI SOP: ALGO 47

Package Overview:	YES	NO
Raw Data Package Complete?	V	The latest two the latest two the latest two two two two two two two two two tw
Results Reported Correctly?	i/	
Special Requests Done?	N/A	era lamacificación de acción
Calculations Checked?	ĵ.	
Calibration Not Exceeded?	N/A	
Manual Peak Integration performed? Circle one IC or GC and Check	N/A	
Field QC Checked?	N/A	
Quality Control:	19.46.64 siylisa 46communi (Imbahh) basa asaan ika saysa 🗻 🖘 accauf	
Holding Times Met?	NA	
Preservation Checked?	N/A	
Proper Digestion Verified?	NIA	
Initial Instrument Performance Checks Verified?	1	
Calibration Verification Checked?	i i	
Sample-Specific QC (Internal Standards or Analytical Spikes) Okay?	NIA	
Matrix QC Checked?	NIA	
Digestion Blanks Checked?	N/A	
Spiked Blank Checked?	NA	
LCS (if applicable) Checked?	N/A	
QCS (if applicable) Checked?	NIA	to to
Final Check		
Technical Review Done?	1	
Narrative Complete?	1	
nalyst: FAVA Peer Reviewer: C.J.		

Data Set Number:	20010069	Parameter:	Suspended Particles
Facility Name:	CHESHIRE MONITO	DRING STUDY	
Study Name:	CHESHIRE MONITO	DRING STUDY	
Date of Narrative:	<u>09/12/2001</u>	Analyst:	<u>FAA</u>
		Signature:	2

ANALYSIS CASE NARRATIVE

Two (2) exposed filters were received for suspended particle analysis at the Central Regional Laboratory (CRL) on September 7, 2001. These two filters were fractions of 22 clean filters, prepared at the CRL between July 13 and 17, 2001 and sent to the field for exposure. Filter preparations and final weighting of exposed filters were performed according to CRL.SOP AIG047. Analysis of exposed filters were completed on 9/12/2001. All the suspended particle results are acceptable for use.

Filters ID	Samples ID	Tag Number
G1006694	2001AH06S01	5-340043-1
G1006690	2001AH06S03	5-340042-1

CHESHIRE AIR MONITORING PROJECT PM10

Parameter: Suspended Particles

Data Set Numbers: 20010069 and 20010070

Date of Analysis 9/11-12/2001

Analyst:

FAA

BALANCE VERIFICATION:

Sandard Weights	Balanced weight	Differences
Actual (g)	Balanced (g)	(g)
		Limit +/-0.0005 g
Data set Number 2001	0070	
1.0000	0.9998	0.0002
1.0000	0.9999	0.0001
2.0000	1.9999	0.0001
2.0000	1.9998	0.0002
5.0000	4.9998	0.0002
5.0000	5.0000	0.0000

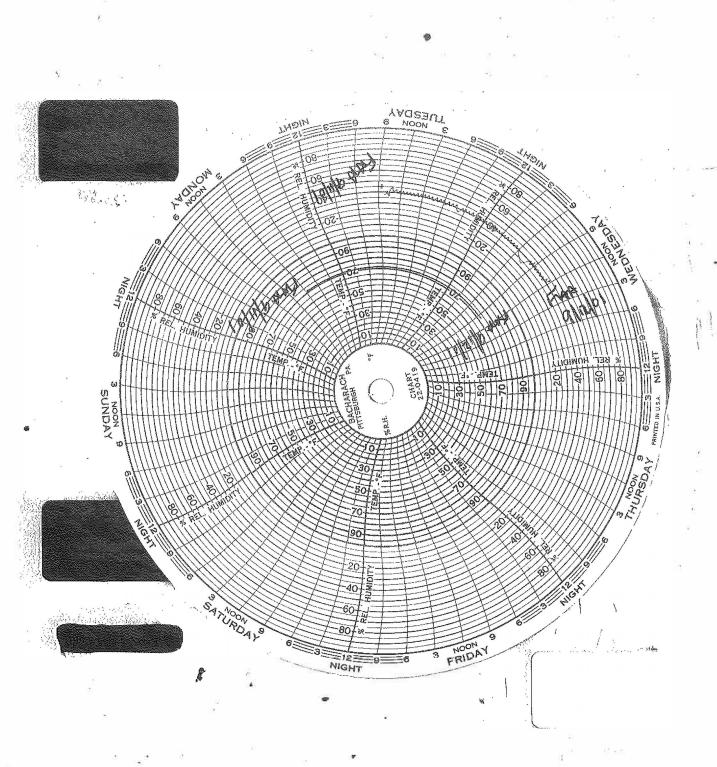
QC-SUMMARY FOR EXPOSED FILTERS

Filter ID	CRL Sample	Sampling	ANALYST	Exposed	
Number I.D Number		Date		weight (g)	
Data set Number 2	0010070				
Q6280060	2001AH07D01	08/29/01	Analyst 1	4.4279	
Q6280060	2001AH07D01	08/29/01	Analyst 2	4.4278	
Differences (Limit +	/- 5 mg)		170.00	0.0001	

, Filter ID	CRL Sample	Sampling	Station	Sampler	Pstg	P1/Pa	Total	Pre Weight	Exposed	Weight	PM10
Number	I.D Number	Date	Location	SN	Avg		Volume (M^3)	of filters (g)	weight (g)	Gain	(UG/M^3)
Data set N	umber 20010069								Í		
G1006694	2001AH06S01	08/23/01	Guiding Hands School	3012	15.50		0.00	4.4154	4.4530	0.0376	ERR
G1006690	2001AH06S03	08/23/01	Addaville	3011	15.40		0.00	4.4085	4.4456	0.0371	ERR
Data set N	umber 20010070									FooGan (37)	
Q6280060	2001AH07D01	08/29/01	Guiding Hands School	3013	20.25		0.00	4.3806	4.4279	0.0473	ERR
Q6280059	2001AH07S01	08/29/01	Guiding Hands School	3012	20.25		0.00	4.3591	4.4093	0.0502	ERR
Q6280061	2001AH07S03	08/29/01	Addaville	3011	19.90		0.00	4.3773	4.4345	0.0572	ERR

£

		>				
FI	Comments		EXPOSED WIT, E	DUPLICATE W.	TARE WE.	FILTER JD
	and pr (ZERD)	up. wt.(g)	(9) 0	(9)	(4)	#
	, \	4.4530		4,4145	4.4154	G1006694
		4.4359			4.4112	G1006692
		4.4456			4.4085	61906690
		**************************************		4. 4818	4. 4083	G1006688
	4.4517	4.4513		4,4212	4. 4220	G1006686
	4.4400	4.4398				61006685
		4.4871			4. 4226	61006680
	4.4799	4-4800	4.4801			G1006683
ļ.,			18			G1006681
	4.4878	4.4879	8	4,3.820		G 1006677
	4.4261	4.4257	X			6 1006676
	4.4643	4.4643	4:46345			G1006673
	4.4039	4: 404		·	4.3722	G.1006671
ļ	4.4487	4.4485	4.4492	·	1.1110-	0
	4.4946	4.4945			4.4152	G 1006669 G 1006665
	4.4663	4.4665	4.4661		4.4076	6 1006665
	A STATE OF THE PROPERTY OF THE	4.4599				G 1006663
		4.4734	4.4736	4. 4094		G100666,
ļ	A STATE OF THE STA	4.4864	The second secon			G1006659
		4.4724				61006657
-		4.4717				G1006656
and and an					-	610066 95
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Marian annua	1	***************************************			And Bown for all specimen years among statement as an except of the first of the 12 and 61 an	, distribution of the second o



SMMDBD Preservative None Sample ID 01AH06SO1 Sampler Mike Murch 8-30-0

200100069

Parameters PM10

US EPA Region 5 Field Sample

<u> </u>	
	Contact State of
OPERATOR OFFICE DATE VESSEL	7 ()L-W.
SHIP A	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)

WALOV Olivia $W_{\rm cM}/M_{\rm cM}$ MOTA WOJF JATOT Wa Symble Ml Вниш ELAPSED TIME HALO SSEHa SHLININ IMIZIVI MI

COMMENLS:

Parameters PM10

2001000 9

Preservative None S M MD B D

Sample ID 01AH06S03 X

Sampler Mike Murph

Date 8-30-01

ANG. RECORDER RESP.

SITE ANG. LEMP OPERATOR OF PALES

WE RESP.

SITE ANG. LEMP OF RESP.

SITE ANG. LEMP OPERATOR OF RESP.

SITE

US EPA Region 5 Field Sample

LOIN HOM

IMBIGMAS

OLWa

SINBMNOD

OUS

MOTE

JAUTOA

nim/°m